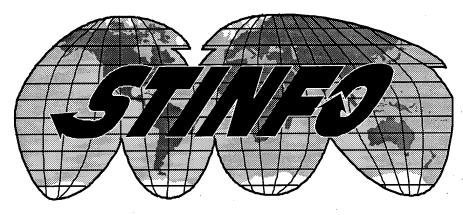
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## AIR FORCE RESEARCH LABORATORY – WRIGHT RESEARCH SITE



## **GUIDE TO TECHNICAL PUBLISHING**



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#### **ABSTRACT**

The following "HOW TO" guide has been prepared by the Air Force Research Laboratory STINFO office/Aeronautical Systems Center to simplify the scientific and technical publication process.

An effort is not complete until it is documented and the results distributed to the appropriate activities. This guide offers step-by-step instructions and samples, detailing the processes involved in the preparation, organization, and distribution of technical publications prepared by AFRL/ASC in-house scientists and engineers as well as DoD contractors.

Written examples of all required forms and/or letters are included in the guide. Blank paper copies of the forms discussed in this guide have been included for your use. A diskette with these forms is also available, upon request, from the STINFO office.

In demand throughout DoD and the world's scientific and business communities, AFRL/ASC technical publications are representative of the quality of the work being performed at Wright-Patterson AFB. The primary goal of this guide is to ensure that the quality of these publications matches the high quality of the information they chronicle.

More detailed information on STINFO and technical publications can be obtained through the STINFO web site, http://www.wrs.afrl.af.mil/infores/library/stinfo.htm or by calling one of our STINFO editors at DSN 785-5197, (937) 255-5197.

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#### **SECTION 1**

#### **CHECKLIST**

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FOLLOW THE STANDARD: ANSI/NISO Z39.18-1995
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SUBMIT:  DRAFT COVER  SF 298, REPORT DOCUMENTATION PAGE  EDITED DRAFT WILL BE RETURNED TO ORGANIZATION WITHIN 80 DAYS WITH TRANSMITTAL LETTER AND NOTICE PAGE
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#### **CHECKLIST**

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☐ SINGLE SIDED, SINGLE SPACED
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☐ SF 298, REPORT DOCUMENTATION PAGE
☐ NOTICE PAGE APPROPRIATE FOR TYPE OF REPORT WITH SIGNATURES
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#### 3. DESCRIPTION/PURPOSE

3.1 Scientific and Technical Reports describe and disseminate to the analytical, scientific and technical community the precise nature and results of analytical studies, research, development, test and evaluation (RDT&E) on an assigned task(s). Scientific and Technical Reports may be definitive for the subject presented, exploratory in nature, or an evaluation of critical subsystem or of technical problems.

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#### 7. APPLICATION/INTERRELATIONSHIP

- 7.1 This DID contains the format requirements and preparation instructions for the information product generated by the specific and discrete task requirement as delineated in the contract.
- 7.2 This DID is applicable to the organization, preparation and production of technical publications.
- This DID supersedes UDI-S-23272C, DI-S-4057 and DI-S-3591A. 7.3
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	SF 298	S4578

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- 10.1 Reference document. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.
- 10.2 Document format shall be in accordance with ANSI Z39.18 Scientific and Technical Reports: Organization, Preparation and Production.
- 10.3 Document content shall be clearly written, describe accomplishments and other facts adequately and with no technical errors, and be acceptable for release. If Scientific and Technical Reports when sent to DTIC are marked unclassified unlimited they should be accompanied by a letter certifying that they have been cleared for public release and sale; to include foreign nationals.
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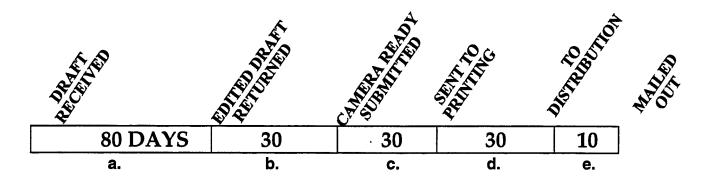
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- b. This is a CDRL item. The contractor has 30 days in which to resubmit a camera ready manuscript
- c. Prepare distribution lists and labels. Obtain notice page signature. Bring to STINFO. They will prepare printing order and do compliance check.
- d. Printing by Defense Automated Printing Service.
- e. Distribution handled by base distribution center.
- f. AF instructions require TR publishing to be completed within 180 days.

## **SECTION 2**

#### **TYPES OF REPORTS**

<u>All research and development (R&D)</u> sponsored in whole or in part by DoD activities must be documented and disseminated whether or not efforts resulted in a successful outcome. This includes in-house and contractual efforts.

The results of R&D conducted or sponsored by AFRL or ASC can be published in a variety of ways: technical reports, articles in professional journals, conference or symposium proceedings, lecture series books or a single chapter in a book, or technical papers. The choice of a publication medium should be governed by the nature of the information involved and its use. The ultimate decision on how and where to publish normally will be made by the monitor/author within the established policy of DoD, USAF, AFRL, ASC and its respective organizations.

An R&D effort or study is not considered complete until it is documented and disseminated. One copy will be placed in the Det 1 AFRL/WST technical reports archive, and one copy will be forwarded to the Defense Technical Information Center (DTIC).

#### TECHNICAL REPORTS (TRs)

A technical report, per DoDI 3200.14, is any preliminary interim or final technical document (regardless of media) prepared to record, document, share results or make recommendations made on, or relating to, DoD-sponsored or cosponsored scientific, technical studies, or analytical work. TRs normally detail empirical findings and may include or be composed of journal articles, symposia proceedings, handbooks, or user guides. TRs usually have 15 or more pages.

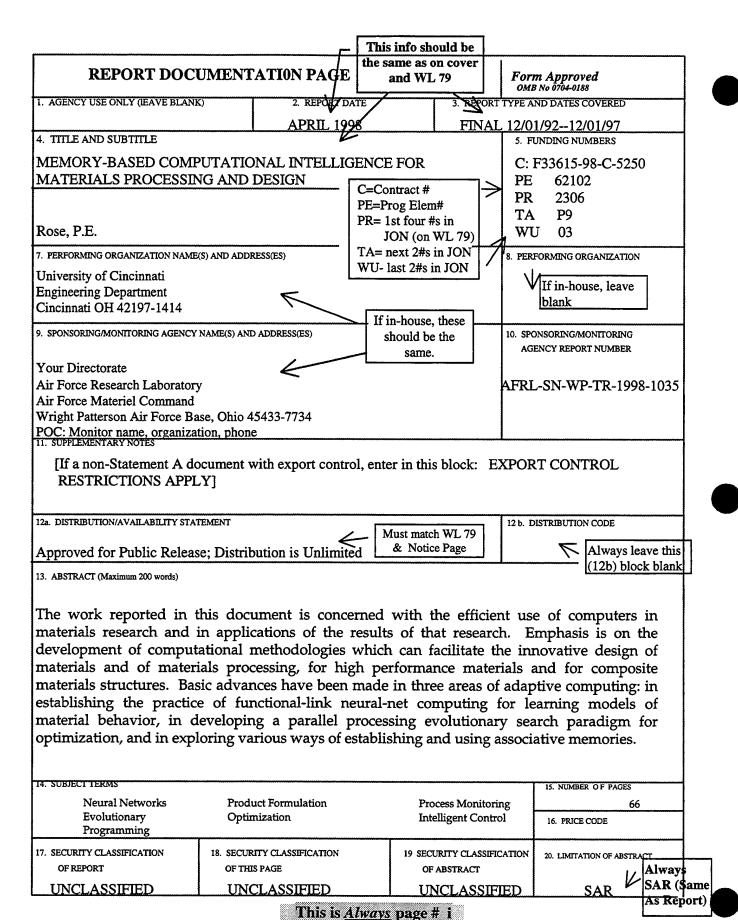
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A technical memo should be published to preserve or control information not deemed suitable for publication as a TR. Materials published as TMs include (but are not limited to): journal articles, documented efforts of less than 15 pages, or working papers having permanent value.

## **SECTION 3**

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Page numbers of Front Matter:	Notices		used on cover and title page to call attention to restrictions or limitations on distribution
always page i—	Report Documentation Page (Includes Abstract)		used by federal agencies for database building; briefly informed of purposes, scope, and findings
(ii is the back side of i)			
iii (always) 🕕 iv	Table of Contents		outlines organization & scope of a report required for 5 or more figures or tables or
v vi	List(s) of Figures and Tables		any combination thereof; optional for fewer than 5
vii		Foreword	provides background or context for a report
etc.		Preface	announces purpose and scope; acknow- ledges contributions of non-authors
		Acknowledgments	used if acknowledgments are too lengthy to present in preface
TEXT (BODY)	Summary		summarizes problem, results, conclusions, recommendations
	Introduction		states subject, purpose, scope and plan for developing report
e Numbers	Methods, Assumptions, and Procedures		describes research methodology
1 2	Results and Discussions		presents findings and discusses their significance
3 4 etc.	Conclusions		presents substantiated findings, discusses their implications, and presents author's opinion
		Recommendations	suggests a course of action
	References		cites sources of information used by author(s) of report
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Table 1. Effects of a Prolonged Exposure to Oxygen in a Weightless Environment

Oxygen debt Ambient pressure (mm Hg)

(Table information is inserted under column headings)

Superscript letters a, b, c, etc., indicate footnotes to table.

Figure 1. Sample Table Layout

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statements provide options ranging from unlimited distribution to no secondary distribution without specific approval of the originator. Review the data categories before assigning a distribution statement, and use only the statements in attachment 2. Fill in the reason, the date of determination, and the controlling DoD office.

WARNING--This decrease contains to bright data whose agreet is rectained by the Arms Export to fille (Title 50, U.S.C., a see sample warning on page 31 of this guide subject to severe criminal penalties. Dissemination in accordance with provisions of DoD Directive 5230.25 and afi 61-204.

- 2.2. When providing technical documents to personnel from another DoD activity, mark documents to minimize the chance that DoD personnel might inadvertently give documents to inappropriate recipients.
- 2.3. Mark unclassified limited documents (i.e., documents not approved for public release) and classified documents with the following:

DESTRUCTION NOTICE—For classified documents, follow the procedures in DoD 5220.2

Revised - formation ents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

- 2.4. You do not have to put a distribution statement on contractor-technical proposals or documents submitted in anticipation of award of contracts. Follow the guidelines in paragraphs 2.5.3 [correction: 2.6.3] and 6.3 when working with contractor technical proposals that contain contractor limited rights data.
- 2.5. Guidance on release of software is in AFI 33-114, Command, Control, Communications, and Computer (C4) Software Management. NOTE: Only the software developer or office of primary responsibility may release source code; secondary distribution is limited to the application software (the object code).

2.6. The following is specific guidance for assigning distribution statements:
2.6.1. Distribution statements A-X may be applied to unclassified Air Force technical documents, while only distribution statements B-F may be applied to classified documents.

AFI 61-204 Attachment 1 27 July 1994

- 2.6.2. When a classified document is declassified, retain the original distribution statement until the controlling office either removes or changes the statement. When a classified document is declassified and has no distribution statement, handle the document as distribution F until the controlling office assigns a distribution statement.
- 2.6.3. Mark and control scientific and technical documents that include contractor-imposed limited-rights legends and computer software that includes contractor-imposed restricted-rights legends according to subpart 27.4 [revised: 27.71] of the Defense Federal Acquisition Regulation Supplement.
- 2.6.4. Do not disseminate technical documents in draft or preliminary form without assigning distribution statements.
- 2.7. Distribution statements remain in effect until the controlling DoD office changes or removes them. Each controlling DoD office must establish a procedure for reviewing its documents periodically or when they receive a request for the document for possible changes or removal of distribution statements. For unclassified documents, the controlling DoD office must obtain public release determination according to AFPD 35-1 before assigning distribution statement A.
- 2.8. Controlling DoD offices must notify DTIC and other concerned document-dissemination activities when:
  - Program management responsibility is transferred, addresses of designated controlling DoD offices are changed, or controlling DoD offices are redesignated.

- Classification markings, distribution statements, or export control statements are changed or removed.
- 2.9. For technical publications, place the distribution statement on the front cover, title page, and SF 298, Report Documentation Page. If the technical document is not intended for publication and does not have a cover or title page, stamp, print, or write the distribution statement on the front page of the document. 2.10. When possible, put the portions of the document that contain information requiring distribution limitation in an appendix or separate volume to permit broader distribution of the basic document. Write the abstract on the SF 298 so that the information in the abstract will not have a limited distribution (i.e. that it is approved for public release).
- 2.11. You must include distribution statements and export-control notices on newly created documents.
- 2.11.1. You do not need to apply markings to technical documents that were created before the implementation of this instruction until someone asks for them. Mark and control them properly before disseminating them.
- 2.11.2. When older documents contain superseded distribution statements, convert the statements as follows:
- 2.11.2.1. Assign distribution statements C, B, E, and F to technical documents bearing distribution statements 2, 3, 4, and 5 of superseded DoD Directive 5200.20, Distribution Statements (Other than Security) on Technical Documents, 29 March 1965, respectively.
  2.11.2.2. Do not reevaluate technical documents with distribution statements A and B of cancelled DoD Directive 5200.20, Distribution Statements on Technical Documents, 24
  September 1970 or documents with distribution statements A-F contained in Secretary of Defense Memorandum "Control of Unclassified Technology with Military Applications," 18
  October 1983.

#### DISTRIBUTION STATEMENTS AND THEIR CORRESPONDING REASONS FOR USE

DISTRIBUTION A. Approved for public release; distribution unlimited.

DISTRIBUTION B. Distribution authorized to US Government agencies only (reason) (date of determination). Other requests for this document shall be referred to (controlling DoD office).

DISTRIBUTION C. Distribution authorized to US Government agencies and their contractors (reason) (date of determination). Other requests for this document shall be referred to (controlling DoD office).

DISTRIBUTION D. Distribution authorized to DoD and US DoD contractors only (reason) (date of determination). Other requests for this document shall be referred to (controlling DoD office).

DISTRIBUTION E. Distribution authorized to DoD components only (reason) (date of determination). Other requests for this document shall be referred to (controlling DoD office).

DISTRIBUTION F. Further dissemination only as directed by (controlling office) (date of determination) or DoD higher authority.

DISTRIBUTION X. Distribution authorized to US Government agencies and private individuals or enterprises eligible to obtain export-controlled technical data in accordance with DoDD 5230.25 (date of determination). Controlling DoD office is (insert).

"REASON"	STATEMENT					
	В	С	D	E	F	X
ADMINISTRATIVE OR OPERATIONAL USE. To protect technical or operational data or information from automatic dissemination under the international exchange program or by other means. This protection covers publications required solely for official use or strictly for administrative or operational purposes. This statement may be applied to manuals, pamphlets, technical orders, technical reports, and other publications containing valuable technical or operational data.	Х	х	Х	X		
CONTRACTOR PERFORMANCE EVALUATION. To protect information in management reviews, records of contractor performance evaluation, or other advisory documents evaluating programs of contractors.	Х			Х		
CRITICAL TECHNOLOGY. To protect information and technical data that advance current technology or describe new technology in an area of significant or potentially significant military application or that relate to a specific military deficiency of a potential adversary.  Information of this type may be classified. When unclassified, technology is export controlled.	Х	Х	х	Х	:	
DIRECT MILITARY SUPPORT. The document contains export-controlled technical data of such military significance that release for purposes other than direct support may jeopardize an important technological or operational US military advantage. Designation of such data is made by competent authority in accordance with DoDD 5230.25.				X		
FOREIGN GOVERNMENT INFORMATION. To protect and limit distribution in accordance with the desires of the foreign government that furnished the technical information. Information of this type normally is classified at CONFIDENTIAL or higher in accordance with DoD 5200.1-R	Х	Х	Х	Х		
PREMATURE DISSEMINATION. To protect patentable information on systems or processes in the developmental or concept stage from premature dissemination.	X			Х		
PROPRIETARY INFORMATION. To protect information not owned by the US Government and protected by a contractor's "limited rights" statement, or received with the understanding that it not be routinely transmitted outside the US Government.	Х			X		
SOFTWARE DOCUMENTATION. Releasable only in accordance with DoDI 7930.2.	X	X	X	X		
TEST AND EVALUATION. To protect results of test and evaluation of commercial products or military hardware when such disclosure may cause unfair advantage or disadvantage to the manufacturer of the product.	X			X		
SPECIFIC AUTHORITY. To protect information not specifically included in the above reasons and discussions but which requires protection in accordance with valid documented authority such as Executive Orders, classification guidelines, DoD or DoD-component regulatory documents. When filling in the reason, cite "specific authority (identification of valid documented authority)."	X	X	X	X	X	

## Unlimited, Statement A Sample Notice Page

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THIS REPORT IS RELEASABLE TO THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). AT NTIS, IT WILL BE AVAILABLE TO THE GENERAL PUBLIC, INCLUDING FOREIGN NATIONS.

THIS TECHNICAL REPORT HAS BEEN REVIEWED AND IS APPROVED FOR PUBLICATION.

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# Small Business Innovation Research Program (SBIR) Sample Notice Page (2 Year Rights – 1992 contracts and earlier)

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## GOVERNMENT PURPOSE LICENSE RIGHTS LEGEND (SBIR PROGRAM)

Contract Number: Contractor:

For a period of two (2) years after the delivery and acceptance of the last deliverable item under the above contract, all technical data contained in this report marked as Government Purpose License Rights data shall be subject to the restrictions contained in the definition of "Limited Rights in DFARS clause 252.227-7013 (Oct. 1988). After the two-year period, the data shall be subject to the restrictions contained in the definition of "Government Purpose License Rights" in DFARS clause 252.227-7013 (Oct. 1988). The Government assumes no liability for unauthorized use or disclosure by others. This legend, together with the indications of the portions of the data which are subject to such limitations, shall be included on any reproduction hereof which contains any portions subject to such limitations and shall be honored only as long as the data continues to meet the definition on Government purpose license rights.

This technical report has been reviewed and is accepted under the provisions of the Small Business Innovation Research Program.

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[3-ltr chief signature block]	

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## Small Business Innovation Research Program (SBIR) Sample Notice Page (4 Year Rights – contracts issued 1993-1995)

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For a period of four (4) years after the delivery and acceptance of the last deliverable item under the above contract, all technical data contained in this report marked as Government Purpose License Rights data shall be subject to the restrictions contained in the definition of "Limited Rights" in DFARS clause at 252.227-7013 (Oct. 1988). After the four-year period, the data shall be subject to the restrictions contained in the definition of "Government Purpose License Rights" in DFARS clause 252.227-7013 (Oct. 1988). The Government assumes no liability for unauthorized use or disclosure by others. This legend, together with the indications of the portions of the data which are subject to such limitations, shall be included on any reproduction hereof which contains any portions subject to such limitations and shall be honored only as long as the data continues to meet the definition of Government purpose license rights.

This technical report has been reviewed and is accepted under the provisions of the Small Business Innovation Research Program.

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# Small Business Innovation Research Program (SBIR) Sample Notice Page (5 Year Rights – contracts issued 1996-present)

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For a period of five (5) years after completion of the project from which the data was generated, the Government's rights to use, modify, reproduce, release, perform, display, or disclose any technical data or computer software contained in this report are restricted as provided in paragraph (b)(4) of the Rights in Noncommercial Technical Data and Computer Software Small Business Innovative Research (SBIR) Program clause contained in the above-identified contract [DFARS 252.227-7018 (Jun. 1995)]. No restrictions apply after expiration of that period Any reproduction of technical data, computer software, or portions thereof marked as SBIR data must also reproduce those markings and this legend.

This technical report has been reviewed and is accepted under the provisions of the Small Business Innovation Research Program.

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Sign		
[3-ltr chief signature block]		

This report is published in the interest of scientific and technical information exchange and does not constitute approval or disapproval of its ideas or findings.

## Sample of Limited With Proprietary Information [NOT FOR SBIR USE] Sample Notice Page

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#### LIMITED RIGHTS LEGEND

Contract Number: Contractor: Location of Limited Rights Data [Pages]:

Those portions of the technical data contained in this report marked as limited rights data shall not, without the written permission of the above contractor, be (a) released or disclosed outside the government, (b) used by the Government for manufacture or, in the case of computer software documentation, for preparing the same or similar computer software, or (c) used by a party other than the Government, except that the Government may release or disclose technical data to persons outside the Government, or permit the use of technical data by such persons, if (i) such release, disclosure, or use is necessary for emergency repair or overhaul or (ii) is a release or disclosure of technical data (other than detailed manufacturing or process data) to, or use of such data by, a foreign government that is in the interest of the Government and is required for evaluational or informational purposes, provided in either case that such release, disclosure or use is made subject to a prohibition that the person to whom the data is released or disclosed may not further use, release or disclose such data, and the contractor or subcontractor asserting the restriction is notified of such release, disclosure or use. This legend, together with the indications of the portions of this data which are subject to such limitations, shall be included on any reproduction hereof which includes any part of the portions subject to such limitations.

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## Limited [Without Proprietary Information] Sample Notice Page

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THIS TECHNICAL REPORT HAS BEEN REVIEWED AND IS APPROVED FOR PUBLICATION.

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Sign [3-ltr chief signature block]		

### **PRINTING AND CAMERA READY COPY**

**Printing** – Det 1 AFRL/WST will fund the printing of up to 50 copies of each report submitted and the mandatory distribution copies (DTIC, Det 1 AFRL/WST, and AUL/LSAD). Because of the potentially high costs involved, reports requiring more than 50 copies or extensive color reproduction will be handled on a case-by-case basis. Call DSN 785-5197 or (937) 255-5197 for additional information.

Camera ready technical reports and memos should be unbound and suitable for offset reproduction (i.e., high quality, legible with clear lettering and sharp line drawings, graphs/illustrations). Photographs should be glossy finished. NOTE: Faintly printed or light contrast graphics or photographs will not reproduce well, if at all.

All pages, except the cover, notice page, and back of the Report Documentation Page should be numbered. The page count in block 15 of the SF 298 needs to match the total number of pages in the camera ready report. Missing pages will delay the final printing.

Include the following with each camera ready:

- a. **Return of Edited Draft Letter** [provided by Det 1 AFRL/WST with any edited report --for non-edited camera ready copies, request copy of letter from Det 1 AFRL/WST]. <u>Previously Edited</u> camera ready reports should include all the changes and corrections of the edited technical report draft and follow the Contract Data Requirements List (DD Form 1423-1) specifications. Indicate the number of printed copies required. Review the letter's checklist for:
- (1) If public release and not 6.1 funded, approval from ASC/PA [date and public release number]
  - (2) Review/approval by ASC/SYSR for all foreign address mailings
  - (3) JON monitor's signature
- (4) Certification of contractor imposed limited rights or right to view export controlled information.

- b. **Signed Notice Page**. Three signatures are required: monitor, supervisor, and 3-ltr Chief. Technical reports cannot be sent to printing without this signed document.
- c. Camera ready cover. Should contain the technical report number, author, title, distribution/availability statements (identical to those listed on the WL Form 79, REQUEST FOR EDITING AND PUBLISHING SUPPORT and SF 298), export control warning (if applicable), destruction notice, and the complete issuing directorate address.
- d. Report Documentation Page, SF 298. Number this page i. Do not number the back of the SF 298. Begin the Table of Contents page with iii. The information provided on the SF 298 should match that given on the REQUEST FOR EDITING AND SUPPORT worksheet. In block 20, LIMITATION OF ABSTRACT, mark SAR (Same As Report).
- e. **Self-adhesive, mailing labels.** Type on the same label your organization's return address and the report destination (do not use labels that require water or glue). Indicate the number of copies for each address. Excess printed copies will automatically go to the originating office. **Labels for the following mandatory distribution addresses are required:**

DEFENSE TECHNICAL INFORMATION CENTER [2 copies] DTIC-OMI 8725 JOHN J KINGMAN ROAD SUITE 0944 FT BELVOIR VA 22060-6218

Det 1 AFRL/WST [1 copy--2 copies if Statement A] BLDG 570 RM S120E 2690 C STREET WRIGHT-PATTERSON AFB OH 45433-7411

AUL/LSAD, BLDG 1405 [1 copy] 600 CHENNAULT CIRCLE MAXWELL AFB AL 36112-6424

#### 5. Classified camera ready technical reports require special handling.

a. The address in block 2 of the DOCUMENT RECEIPT AND DESTRUCTION CERTIFICATE, **AF Form 310**, should read:

88th CG/SCCIAPD (VAULT), Bldg 281 4165 COMMUNICATIONS BLVD, Door 11 WRIGHT-PATTERSON AFB OH 45433-5603

When filling out AF 310s for classified camera readies, blocks 3,4 and 6 should be left blank. The Distribution Office (PDO) will fill in this information when they make distribution. It is very important to keep each AF 310 in exactly the same order as the distribution list and the mailing labels.

- b. It is recommended that laser-printed labels be used. The WPAFB mail room requires one return address label and one addressee label for each on-base addressee. If being sent off base, two sets of mailing labels are required because of security double wrapping requirements. The outer and inner label for each address should be directly across from each other. Please note: The return address on label should be your organization's address and not the 88th CG/SCCIAPD (VAULT) address. Names of individuals can appear on the inside labels of Air Force addressees only. Do not put individual names on Army, Navy or contractor mailing labels. Individual names do, however, need to be put on all AF 310s regardless of address location.
- c. Send copies of classified reports to the mandatory addresses listed above.
- d. Include a distribution list as the last page of the classified report, annotate in the Table of Contents and page number sequentially.
- e. Indicate the number of printed copies required, check the appropriate boxes on the **Return of Edited Draft** letter, return the letter with the finalized classified camera ready, and follow standard security and distribution practices.

## \*\*\* SAMPLE \*\*\* TRANSMITTAL/INDORSEMENT LETTER \*\*\* SAMPLE \*\*\* DISTRIBUTION STATEMENT A - EXCEPT 6.1 FUNDED

MEMORAL	NDUM FOR	AFRL/VAAC Attn: Monitor	04/10/98
FROM:	Det 1 AFRL/W Bldg 570 Rm S 2690 C Street Wright-Patterso		
SUBJECT:	Return of Edite	d Draft	
returned to	the contractor wi nust then prepare	th editorial and technica a camera ready copy of	WP-TR-1998-XXXX, is attached. It must be 1 comments for review and correction. The 1 the report within 30 days in accordance with 1 ded to Det 1 AFRL/WST.
2. Thank (55197).	you for your coo	peration. If you have an	y questions, please do not hesitate to call
1st Ind,			STINFO & Technical Editing Technical Information Branch
TO: Det 1	AFRL/WST		
1. The at		camera ready report is fo	orwarded for printing. Please have
2. The fo	llowing requiren	nents apply:	
	ASC/PA has app Release num The SF 298 has I I certify that any ASC/SYSR, For I certify that if the approved by the I certify that if the addresses on ma	labels is attached. broved public release. ber:, d been "sanitized" and can mailings to foreign addr eign Disclosure. his report contains contra contracting officer. his report contains expor	the released to DTIC.  Tresses have been reviewed and approved by actor imposed limited rights it has been to controlled information, all nongovernment dights with the Defense Logistics Services Center
1 Atch Camera Re	eady Report		(JON Monitor's Signature)

## \*\*\*SAMPLE \*\*\* TRANSMITTAL/INDORSEMENT LETTER \*\*\* SAMPLE \*\*\* <u>CLASSIFIED DOCUMENT</u>

MEMORAN	NDUM FOR		/SNRT Monitor	04/10/98
FROM:	Det 1 AFRL/WS Bldg 570 Rm S1 2690 C Street Wright-Patterson	20E	OH 45433-7411	
SUBJECT:	Return of Edited	l Draft		
returned to to contractor m	he contractor with ust then prepare	h edito a came	rial and technical ra ready copy of t	-1998-XXXX, is attached. It must be comments for review and correction. The ne report within 30 days in accordance with to Det 1 AFRL/WST.
2. Thank y (55197).	ou for your coop	eration	. If you have any	questions, please do not hesitate to call
				ΓΙΝFO & Technical Editing echnical Information Branch
1st Ind,				
TO: Det 1 A	AFRL/WST			
1. The atta		amera	ready report is for	warded for printing. Please have
[ ] A [ ] A [ ] A [ ] I [ ] I [ ] I [ ] I a [ ] I	AF form 310 The SF 298 has be certify that any number of the SC/SYSR, Foreither of the certify that if this difference on mailing DLSC).  Certify that all addresses on the second of th	is part ailing larked Laber made en "sa nailings gn Dis se report ontract in glaber dressee	ncluded. of the report. abels is attached. AW AFR 205-1 e to ASC/NAIC/P nitized" and can be s to foreign address closure. t contains contract ing officer. t contains export of els are registered v es on the distribution	DA and Det 1 AFRL/WST.  e released to DTIC. ses have been reviewed and approved by or imposed limited rights it has been ontrolled information, all nongovernment with the Defense Logistics Services Center on list have the required individual or sessary for receipt of this document.
1 Atch Camera Rea	dy Report		_	(JON Monitor's Signature)

### **JOURNAL ARTICLES**

The Air Force encourages its scientific and technical personnel to publish research results in recognized journals. The publication of information generated by AFRL-related R&D programs in national and international journals enhances the reputation of the Laboratory, and provides a far-reaching means of sharing AFRL technological advancements.

The majority of articles must be cleared prior to publication with the ASC Public Affairs (PA) Office (see sample of request letter for PA approval on page 12 of this guide).

- Contracted fundamental research, which is sponsored by 6.1 funds, does not require PA clearance.
- 6.2 funded, university and college projects, only require classification review.

AFI 61-202, <u>United States Air Force Technical Information Program</u>, requires that "official articles" be submitted to the Defense Technical Information Center (DTIC). "Official articles" being defined as articles created using Air Force dollars or Air Force time. Finding DoD-generated articles that appear in national or international sources can be difficult, time-consuming, and expensive. Placing copies of all DoD-generated articles in DTIC's comprehensive collection of scientific and technical information ensures these articles are readily available to DoD, other government agencies, contractors, and, where applicable, the general public.

Two copies of each article (as submitted for publication) along with a WL Form 79 <u>Request for Editing and Publishing Support</u>, should be sent to Det 1 AFRL/WST (STINFO). If submission copies of articles are not available, please furnish copies as published. One copy will be retained in the AFRL technical reports vault and one copy will be sent to DTIC.

### \*\*\* sample journal article \*\*\*

#### Transition on Turbine Blades and Cascades at Low Reynolds Numbers

Richard B. Rivir\*
Wright Lab Directorate
US Air Force Air Force Research Laboratory
Wright-Patterson AFB, Ohio

#### **Abstract**

The words that follow are merely randomly selected excerpts from an article, as this is an example only. Unpredicted losses in the low pressure turbine during operation at high altitudes has stimulated current interest in transition, and separation at low Reynolds numbers. In the turbine, free stream turbulence levels unsteadiness resulting from vane wakes, passage vorticies, and end wall horseshoe vortices exceeds unsteadiness levels associated with a fully turbulent boundary layer.

In our work on low pressure, low Reynolds number turbine flows we have a few new measurements of transition, transition length and turbulence scales to add

#### Introduction

The commonly held physical picture of the transition process is illustrated schematically in Figure 1. Two D Tollimien Schlicting waves are amplified, breaking down into Emmons spots which propagate as a wedge with a following quiet wedge region until the boundary layer has become fully turbulent. Turbine transitions

<sup>\*</sup>Associate Fellow

This paper is declared a work of the U.S. Government and as such is not subject to copyright protection in the United States

# DTIC ACCESSION NOTICE, DTIC FORM 50

The AFRL/ASC STINFO is responsible for ensuring that AFRL/ASC technical publications are sent to the Defense Technical Information Center (DTIC) for inclusion in their comprehensive collection of DoD official technical information.

DTIC acknowledges the receipt of reports and other information by sending an annotated DTIC Form 50 to the AFRL/ASC STINFO office. The DTIC Form 50 indicates the unique accession number (i.e., AD#......) DTIC has assigned to the specific technical report or memo. This DTIC Form 50 is forwarded, in turn, to the submitting organization by STINFO after the accession number has been entered into the STINFO report database. Monitors should indicate the assigned AD# in the case file and the ASTARS record.

ENSE TECHNICAL RMATION CENTER 5 John J Kingman elvoir, VA 22060-6218 FFICIAL BUSINESS Y FOR PRIVATE USE, \$300			
AD NUMBER	DATE	DTIC ACCESSION NOTICE	
1. REPORT IDENTIF		REQUESTOR:  1. Put your mailing on reverse of form.	
B. REPORT T	TLE AND/OR NUMBER	2. Complete items 1 and 3. Attach form to reports mailed to DTIC.  4. Use unclassified information only. 5. Do not order documents for 6 to 8 weeks.	
C. MONITOR	REPORT NUMBER		
D. PREPAREI	UNDER CONTRACT NUMBER	DTIC:	
2. DISTRIBUTION S	TATEMENT	Assign AD Number     Return to requestor	
		S EDITIONS ARE	
DTIC Form 50	PREVIOU	S EDITIONS ARE	

# ELECTRONIC SUBMISSION OF TECHNICAL REPORTS TO DTIC

The Defense Technical Information Center is accepting the electronic delivery of the full text of scientific and technical engineering (STEI) for storage and dissemination.

- Electronic processing is currently being tested
  - DTIC will accept documents in Word, WordPerfect, Postscript, ASCII, or PDF
    - Diskette [put all files in one directory]
    - FTP file transfer recommended for multiple documents [Statement A documents only]
  - Include 'read-me' document on how to assemble files and indicate which version of Word or WordPerfect is used.
  - Wants paper copy to accompany electronic document to verify correct information has been transferred
  - Once it has been verified that these transfers have been successful [without loss of data or formatting],paper copies will not be required
  - Report Documentation Page, SF298, is available in FormFlow and Microsoft Word formats and needs to accompany the file
- Documents will still need to be screened by STINFO
  - Paper copies preferred for Reports Vault and Air University
- Submissions will be entered into DTIC's electronic documents database
  - Full text accessible documents
  - Retrievable via PDF format
- DTIC identifying AD numbers forwarded to STINFO/organizations via e-mail

#### AIR FORCE POLICY DIRECTIVE 61-2

#### PUBLICATIONS WITH RELATED POLICIES AND INSTRUCTIONS

Publication Designation	Title	Former Publication or Date
DoD Directive 3200.12	DoD Scientific and Technical Information (STI) Program (STIP)	February 11, 1998
DoD Directive 5200.12	Conduct of Classified Meetings	July 27, 1992
DoD Directive 5230.24	Distribution Statements on Technical Documents	March 18, 1987
DoD Directive 5230.25	Withholding of Unclassified Technical Data From Public Disclosure	November 6, 1984
DoD Directive 5230.27	Presentation of DoD-Related Scientific and Technical Papers at Meetings	October 6, 1987
DoD Directive 8910.7	Management and Control of Information Requirements	June 11, 1993
DoD Instruction 3200.14	Principles and Operational Parameters of the DoD Scientific and Technical Information Program	May 13, 1997

### A2.2. This directive interfaces with the following Air Force policy directives and instructions:

Publication Designation	Title	Former Publication or Date
AFPD 61-1	Management of Air Force Science and Technology	AFR 80-3
AFI 61-201	Responsibilities of the Local STINFO Officer	AFR 83-1
AFI 61-202	AF Technical Publications Program	AFR 83-2
AFI 61-203	R & T Work-Unit Information System	AFR 80-12

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#### AFPD 61-2 ATTACHMENT 3

AFI 61-204	Controlling the Distribution of Classified and Unclassified STINFO	AFRs 80-30, 80-34, and 83-3
AFI 61-205	Sponsoring or Cosponsoring, Conducting, and Presenting DoD-Related Scientific and Technical Papers at Unclassified and Classified Conferences, Symposia, and Other Similar Meetings	AFR 80-43
AFI 61-207	Air Force Information for Industry Offices	AFR 80-11
AFI 61-208	Air Force Potential Contractor Program	No Former Publication
AFI 61-209	Advance Planning Briefings for Industry	No Former Publication
AFR 80-39 (Joint Departmental Publication)	Certification and Registration for Access to Scientific and Technical Information	May 5, 1977

## Additional related publications:

DTIC/TR-97-7	DoD STINFO Manager Training Course -	
AD-A328942	STINFO Documentation	
DTIC/TR-93-10	DoD STINFO Manager Training Course -	
AD-A260200	Training Manual	